

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	133294	(rotat\$3 OR rotary) ADJ3 (anode OR target OR disk OR disc)	USPA T; US-PG PUB; EPO; JPO; DERW ENT; IBM_ TDB	2003/09/05 15:06
2	BRS	L2	206181	x-ray OR xray	USPA T; US-PG PUB; EPO; JPO; DERW ENT; IBM_ TDB	2003/09/05 14:51
3	BRS	L3	5486	1 AND 2	USPA T; US-PG PUB; EPO; JPO; DERW ENT; IBM_ TDB	2003/09/05 14:52
4	BRS	L4	1533	(rotor ADJ hub) WITH (shaft OR stem)	USPA T; US-PG PUB; EPO; JPO; DERW ENT; IBM_ TDB	2003/09/05 14:52

	Type	L #	Hits	Search Text	DBs	Time Stamp
5	BRS	L5	19	3 AND 4	USPA T; US-PG PUB; EPO; JPO; DERW ENT; IBM_ TDB	2003/09/05 14:52
6	BRS	L6	16	(anode OR target OR disk OR disc) WITH (thermal ADJ barrier) WITH (shaft OR stem)	USPA T; US-PG PUB; EPO; JPO; DERW ENT; IBM_ TDB	2003/09/05 15:51
7	BRS	L7	33474	(interference OR shrink) ADJ fit\$3	USPA T; US-PG PUB; EPO; JPO; DERW ENT; IBM_ TDB	2003/09/05 15:53
8	BRS	L8	20	3 AND 7	USPA T; US-PG PUB; EPO; JPO; DERW ENT; IBM_ TDB	2003/09/05 15:53

Alloys List d by Trad mark

UNS	Material	Density (g/cm ³)
AI Tech Specialty Steel Corp.		
S20300	203	7.75
S30200	302	8.03
S30300	303	8.03
S30400	304	8.03
S30403	304L	8.03
S30900	309	8.03
S31000	310	8.03
S31600	316	8.03
S31603	316L	8.03
S32100	321	8.03
S34700	347	8.03
S41000	410	7.75
S41600	416	7.75
	416F	7.75
S41800	418	7.75
S42000	420	7.75
S43000	430	7.75
S43020	430F	7.75
S44004	440C	7.75
	AL630-17Cr 4Ni	7.75
Allegheny Ludlum Corporation		
	316LXN™	8.03
S31725	317LX™	8.03
S31726	317LXN™	8.03
N08367	AL-6XN®	8.06
	AL-6XN Plus™	
N08904	AL-904L™	7.95
S15500	AL 15-5™	
S15700	AL 15-7™	
S17400	AL 17-4™	
S17700	AL 17-7™	
N08020	AL 20™	8.08
	AL 22-3™	
S44700	AL 29-4®	7.72
S44735	AL 29-4C®	7.65
S44800	AL 29-4-2®	7.70
S20400	AL 30™	
S24000	AL 33™	7.84
K93600	AL 36™	
	AL 42™	
	AL 45™	
S20910	AL 50™	7.95
N14052	AL 52™	
N02200	AL 200™	8.90
N02201	AL 201™	8.90
S20153	AL 201LN™	7.86
	AL 216™	
S21904	AL 219™	7.85
S31803	AL 2205™	7.88
S32550	AL 255™	7.72
N10276	AL 276™	8.90
	AL 304DA™	7.86
	AL 310L™	

UNS	Material	Density (g/cm ³)
Allegheny Ludlum Corp. (cont'd)		
N08800	AL 332™	8.03
	AL 344™	
N04400	AL 400™	8.83
	AL 403™	
	AL 409Cb™	7.76
S40930	AL 409HP™	7.76
	AL 410™	7.65
	AL 410HC™	
	AL 418™ Special	7.86
	AL 420™	7.73
	AL 425 Mod™	7.72
	AL 433™	7.75
	AL 436S™	7.75
S43035	AL 439HP™	
	AL 440A™	7.74
	AL 440C™	
	AL 441™	7.71
	AL 441HP™	
	AL 467™	
	AL 468™	
K94800	AL 4750™	
N06600	AL 600™	8.42
N06601	AL 601™	8.05
	AL 610™	
	AL 611™	
N06625	AL 625™	8.44
N08800	AL 800™	8.03
N08810	AL 800H™	8.03
N08811	AL 800AT™	8.03
N08825	AL 825™	8.13
K91470	ALFA I™	7.38
K91470	ALFA II™	7.34
N06625	ALTEMP® 625	8.44
N07718	ALTEMP® 718	8.19
S66286	ALTEMP® A-286	7.92
N06002	ALTEMP® HX	8.22
S35000	AM 350™	7.81
S35500	AM 355™	7.91
	AM 362™	
	AM 363™	
S44627	E-BRITE 26-1®	7.67
N08700	JS 700™	7.95
K91470	Ohmaloy® 30	
K91470	Ohmaloy® 40	
K94760	Sealmet® 4	
	Sealmet® 485	
	Silectron®	
Allvac		
N06110	Allvac® Alicorr®	8.33
N13017	Allvac® Astroloy	7.91
N07041	Allvac® Rene 41	8.24
N07001	Allvac® Waspaloy™	8.19
R56320	Allvac® 3-2.5	4.48

UNS	Material	Density (g/cm ³)
	Allvac (cont'd)	
R54520	Allvac® 5-2.5	4.45
R54620	Allvac® 6-2-4-2	4.54
R56260	Allvac® 6-2-4-6	4.65
R56400	Allvac® 6-4	4.43
R56402	Allvac® 6-4 ELI	4.48
R56620	Allvac® 6-6-2	4.54
R56700	Allvac® 6-7	4.51
R54810	Allvac® 8-1-1	4.31
R50250	Allvac® 30, Ti CP-1	4.51
R30035	Allvac® 35N	8.41
R50400	Allvac® 40, Ti CP-2	4.51
R50550	Allvac® 50, Ti CP-3	4.51
R50700	Allvac® 70, Ti CP-4	4.51
R58650	Allvac® Ti-17	4.65
R52400	Allvac® Grade 7	4.51
R53400	Allvac® Grade 12	4.51
R58153	Allvac® Grade 15-3-3-3	4.76
R58640	Allvac® 38-644	4.81
N08330	Allvac® 330	8.00
	Allvac® 520	8.22
N09706	Allvac® 706	8.08
N07718	Allvac® 718-OP®	8.19
	Allvac® 720	8.08
	Allvac® M-252	8.24
T11350	Allvac® M-50	7.78
S66286	Nickelvac® A-286	7.92
N06022	Nickelvac® C 22	8.02
N10276	Nickelvac® C-276	8.89
N10665	Nickelvac® H-B-2	9.22
N06002	Nickelvac® H-X	8.22
N05500	Nickelvac® K-500	8.47
R31537	Nickelvac® TJA-1537™	8.30
N08020	Nickelvac® 23	8.06
N07080	Nickelvac® 80 A	8.16
N04400	Nickelvac® 400	8.83
N06600	Nickelvac® 600	8.41
N06601	Nickelvac® 601	8.05
	Nickelvac® 606	8.36
N06625	Nickelvac® 625	8.44
N06690	Nickelvac® 690	8.13
N08800	Nickelvac® 800	7.94
N08810	Nickelvac® 800-H	7.94
N08825	Nickelvac® 825	8.14
N09901	Nickelvac® 901	8.22
N07263	Nickelvac® C-263	8.35
N10276	Nickelvac® HC-276	8.94
N10003	Nickelvac® H-N	8.77
N10004	Nickelvac® H-W	8.99
R30605	Nickelvac® L-605	9.22
N07090	Nickelvac® N-90	8.11
S31600	Nickelvac® R-26	8.19
N07722	Nickelvac® W-722	8.24
N07750	Nickelvac® X-750	8.30
N07751	Nickelvac® X-751	8.24
S20910	Nickelvac® XM-19	7.86

For alloys not listed here, please contact our sales department. Densities listed are for general reference only.

UNS	Material	Density (g/cm ³)	UNS	Material	Density (g/cm ³)	UNS	Material	Density (g/cm ³)
Allvac (cont'd)			Creusot-Loire Industrie			Creusot-Loire Industrie (cont'd)		
S31675	REX 734™	7.89	4003				UR 45N Mo - 2205 Mo	
S41800	Vasco Greek Ascoloy	7.86	Abroclad				UR 45N - 2306 Mo	
K91238	Vasco® 9-4-30	7.83	Creusabro ACR				UR 47N - SAF 2507	
G43400	Vasco® 4340	7.83	Creusabro® 4000				UR 51	
G93106	Vasco® 9310	7.86	Creusabro® 8000				UR 52N - 2507 Cu	
	Vasco® X-2M	7.75	Creusabro® M				UR 65	
K24728	Vasco® D6AC	7.78	CLC 18.9 (H)				UR 76N	
S64152	Vasco® Jethete M152	7.75	CLC 18.9 L				UR 625	
T20811	VascoJet® 1000	7.75	CLC 18.10 L				UR 825	
K92890	Vascomax® C-250	8.00	CLC 18.10 Ti				UR B6 (N)	
K93120	Vascomax® C-300	8.00	CLC 18.10 Nb				UR B25	
	Vascomax® C-350	8.08	CLC 18.10 N				UR B26	
	Vascomax® T-200	8.00	CLC 18.10 LN				UR B28	
	Vascomax® T-250	8.00	CLC 18.12.4 LN				UR B46	
			CLC 18.14.3 L				UR B66	
			CLC 18.15.4 L				UREA 25.22.2	
Avesta Stainless Inc.			CLC 17.12.2 (H)				UREA 316 L mod	
S31803	Avesta 2205	7.80	CLC 17.12.2 L				Virgo 39	
S30415	Avesta 153MA		CLC 17.12.2 Ti				Virgo 17.4 PH	
S30815	Avesta 253MA		CLC 17.12.2 Nb				Virgo 15.5 PH	
S31254	Avesta 254SMO	8.00	CLC 17.12.3 L			R60001	Zirconium	
S32654	Avesta 654SMO	8.00	CLC 17.13.3					
N08904	904L	8.00	CLC 17.13.3 LN					
S31726	317LMN	8.00	CLC 17.13.5 LN					
	34LN		FAST 17.12.2.2					
			FAST 18.10					
			FAST 17.12.3					
Carpenter Technology Corp.			Fora 250 bc					
N08020	20Cb3®	8.08	Fora 360 bc					
N08024	20Mo4®	8.11	Fora 400 bc					
N08026	20Mo6®	8.13	Fora 500					
N20910	22 Cr-13 Ni-5 Mn	7.88	M 200					
S28200	18-18 PLUS®	7.88	M 250					
S45000	Custom 450®	7.75	M 300					
S45500	Custom 455®	7.76	NUCL 18.10					
N07716	Custom 625 PLUS®	8.40	NUCL 18.10 Nb			R30404	Stellite® alloy #3	8.69
S32950	7 Mo PLUS®	7.75	NUCL 18.10 B			R30006	Stellite alloy #4	8.73
N07031	PYROMET® 31	7.99	NUCL 167 SPH			R30016	Stellite alloy #6	8.46
S30430	Custom Flo 302 HQ	7.92	SIRIUS S12				STELLITE 6B (Wrought Alloy)	
S30300	Project 70® Type 303	7.83	SIRIUS S15				STELLITE 6K (Wrought Alloy)	
N06600	PYROMET® 600	8.43	SIRIUS 309 (S)			R30012	Stellite alloy #12	
R30605	L605	9.20	SIRIUS 310 (S)				Stellite alloy #19	
S66286	CONSUMET® A286	7.92	SIRIUS 314			R30021	Stellite alloy #21	
	HyMu "77"		SIRIUS 800 (H)				Stellite alloy #25	
	HyMu "80"	8.74	SIRIUS 600			R30031	Stellite alloy #31	
	High Permability "45"		Soleil A2				Stellite alloy #33	
	High Permability "49"	8.18	Soleil A4				Stellite alloy #100	
	NI MARK® 250	8.02	Soleil B2				Stellite alloy #250	
	Temp. Compensator "30"	8.70	Soleil B3			R31001	Stellite alloy Star J	
	Temp. Compensator "32"	8.12	Soleil B4				Stellite alloy #703	
K93601	Carpenter Invar "36"	8.05	Soleil C5				Stellite alloy #706	
K94610	KOVAR®	8.36	SP 300				Stellite alloy #712	
K94100	Glass Sealing "42"	8.12	SP 400				Stellite alloy #720	
N14052	Glass Sealing "52"		SP 400 S				Tribaloy® T-400	8.99
							Tribaloy® T-700	8.72
			R50250	Titanium			Tribaloy T-745	
				UR 16			Tribaloy T-800	8.64
				UR 35N - 2304				
				UR 45N - 2205				

All ™ and ® listed under company headings are trademarks or registered trademarks of that company.

All TM and [®] listed under company headings are trademarks or registered trademarks of that company.

UNS	Material	Density (g/cm ³)	UNS	Material	Density (g/cm ³)	UNS	Material	Density (g/cm ³)
Sandvik Steel (cont'd)			Special Metals (cont'd)			Sumitomo Corporation		
S30403	3R12 - (AISI 304L)		N07754	INCONEL® alloy MA754	8.55	SM 22 CR-65		
S30200	12R10 - (AISI 302)			INCONEL® alloy MA758	8.55	SM 22 CR-125		
S30100	12R11 - (AISI 301)		R30783	INCONEL® alloy 783		SM 25 CR-75		
S30100	11R51 - (AISI 301)		N10276	INCONEL® alloy C-276	8.89	SM 25 CR-110		
	9RU10 - (AISI 631)		N06985	INCONEL® alloy G-3	8.14	SM 25 CR-140		
	13RM19		N06002	INCONEL® alloy HX	8.22	SM-IN 825-125		
S32750	SAF 2507	8.00		INCOTHERM™ alloy TC		SM-IN 825-110		
Special Metals				INCOTHERM™ alloy TG		SM 2035-110		
N02200	Nickel 200	8.89		KOTHERM® alloy KP		SM 2535-110		
N02201	Nickel 201	8.89	N04400	MONEL® alloy 400	8.80	SM 2550-110		
N02205	Nickel 205	8.89	N04405	MONEL® alloy R-405	8.80	Stainless Foundry & Engineering, Inc.		
	Nickel 212		N05500	MONEL® alloy K-500	8.44	ILLIUM 98; ILLIUM 98HF		
N02270	Nickel 270		K93600	NILO® alloy 36	8.11	ILLIUM B		
	BRIGHTRAY® alloy 35	8.30		NILO® alloy 365		ILLIUM G		
N06004	BRIGHTRAY® alloy B	8.30	K94100	NILO® alloy 42	8.11	ILLIUM P; ILLIUM PD		
N06003	BRIGHTRAY® alloy C	8.30		NILO® alloy 475		Timken Latrobe		
	BRIGHTRAY® alloy F	8.30	K94800	NILO® alloy 48	8.11	R30035	MP35N	8.41
N06003	BRIGHTRAY® alloy S	8.30	K94610	NILO® alloy K	8.16	R30159	MP159	8.36
	Electroformed Nickel			NILOMAG® alloy 77	8.77	S44004	440C	7.75
N03301	DURANICKEL® alloy 301	8.19	N06075	NIMONIC® alloy 75	8.36	S42700	BG42	7.75
	FERRY® alloy		N07080	NIMONIC® alloy 80A	8.19	S64152	Jethete M152	7.75
	INCOCLAD® 671/800HT®			NIMONIC® alloy 86			410Cb	7.77
N08020	INCOLOY® alloy 020	8.08	N07090	NIMONIC® alloy 90	8.19	S15500	15-5 PH	7.81
N08028	INCOLOY® alloy 028	8.03		NIMONIC® alloy 101		S17400	17-4 PH	7.75
N08926	INCOLOY® alloy 25-6MO	8.20		NIMONIC® alloy 105	8.01	S13800	PH 13-8 Mo	7.76
N08330	INCOLOY® alloy 330	8.08		NIMONIC® alloy 115			440N-DUR	7.67
N08800	INCOLOY® alloy 800	7.94	N07263	NIMONIC® alloy 263	8.36		CSS-42L™	7.89
N08810	INCOLOY® alloy 800H	7.94	N09901	NIMONIC® alloy 901	8.14		420 Stainless	7.64
N08811	INCOLOY® alloy 800HT	7.94		NIMONIC® alloy PE16			422 Stainless	7.77
S35045	INCOLOY® alloy 803	7.86		NIMONIC® alloy PK33		VDM Technologies Corporation		
N08825	INCOLOY® alloy 825	8.14		NIOOTHERM® alloy NP		N08926	Cronifer 1925hMo	8.10
	INCOLOY® alloy 840	7.83		NIOOTHERM® alloy NN		N08031	Nicrofer 3127hMo	8.10
S35135	INCOLOY® alloy 864™	8.02	N09902	NI-SPAN-C® alloy 902	8.11	N08020	Nicrofer 3620Nb	8.05
N19903	INCOLOY® alloy 903	8.30		RESISTOHM® alloy 30		N06985	Nicrofer 4823hMo	8.30
N09908	INCOLOY® alloy 908			RESISTOHM® alloy 40		N10276	Nicrofer 5716hMoW	8.89
N19909	INCOLOY® alloy 909	8.30	N06604	RESISTOHM® alloy 60		N06059	Nicrofer 5923hMo	8.80
N09925	INCOLOY® alloy 925™	8.08		RESISTOHM® alloy 70		R20033	Nicrofer 3033	7.90
S66286	INCOLOY® alloy A-286	7.94		RESISTOHM® alloy 80		N06025	Nicrofer 6025HT	7.90
	INCOLOY® alloy DS	7.86		RESISTOHM® alloy 125		N06045	Nicrofer 45TM	8.00
S67956	INCOLOY® alloy MA956	7.25		RESISTOHM® alloy 135		N10629	Nimofer 6629	9.20
N06950	INCONEL® alloy 050	8.39		RESISTOHM® alloy 140		N10665	Nimofer 6928	9.20
N06600	INCONEL® alloy 600	8.47		RESISTOHM® alloy 145		Waukesha Foundry Inc.		
N06601	INCONEL® alloy 601	8.11		RESISTOHM® alloy Y		3 WM		8.85
	INCONEL® alloy 601GC	8.11	K92890	UDIMAR® alloy 250		23 BIWM		8.58
N06617	INCONEL® alloy 617	8.36	K93120	UDIMAR® alloy 300		54C		8.58
N06022	INCONEL® alloy 622	8.61	S13800	UDIMET® alloy 13-8Mo		88 WM		8.58
N06625	INCONEL® alloy 625	8.44	R30188	UDIMET® alloy 188		119 WM		8.58
	INCONEL® alloy 625LCF	8.44	N07500	UDIMET® alloy 500		EM-27		7.75
N06686	INCONEL® alloy 686	8.73		UDIMET® alloy 520		HC250		8.02
N06690	INCONEL® alloy 690	8.19	R30605	UDIMET® alloy 605				
N09706	INCONEL® alloy 706	8.05		UDIMET® alloy 700				
N07718	INCONEL® alloy 718	8.19		UDIMET® alloy 720				
N07719	INCONEL® alloy 718SPF™		R30075	UDIMET® alloy 799				
N07725	INCONEL® alloy 725™	8.30	N09979	UDIMET® alloy D-979				
N07750	INCONEL® alloy X-750	8.28	N07041	UDIMET® alloy R41				
N07751	INCONEL® alloy 751	8.22						

All ™ and ® listed under company headings are trademarks or registered trademarks of that company.